MSI B760M BOMBER WIFI

MSI B760M Bomber WiFi Motherboard User Manual

Model: B760M BOMBER WIFI

1. Introduction

This manual provides detailed instructions for the installation, configuration, operation, and maintenance of your MSI B760M Bomber WiFi Micro-ATX Motherboard. This motherboard is designed to support 12th, 13th, and 14th Generation Intel Core processors, DDR5 memory, and PCIe 4.0 for enhanced performance. Please read this manual thoroughly before proceeding with installation to ensure proper setup and functionality.

2. Safety Information

Always observe the following safety precautions during installation and operation:

- Disconnect the power cord from the wall outlet before touching any component.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.
- Handle components by their edges to avoid touching sensitive parts.
- Ensure proper ventilation within your PC case to prevent overheating.
- Keep the motherboard away from moisture and extreme temperatures.

3. Package Contents

Verify that all items are present in your motherboard package. If any item is damaged or missing, contact your retailer.

- MSI B760M Bomber WiFi Motherboard
- I/O Shield
- SATA Cables
- Wi-Fi Antenna
- M.2 Screws and Standoffs
- User Manual and Quick Installation Guide
- Driver CD/USB (or download instructions)

4. Motherboard Layout

Familiarize yourself with the key components and connectors on your motherboard.



Figure 4.1: MSI B760M Bomber WiFi Motherboard and its retail packaging.

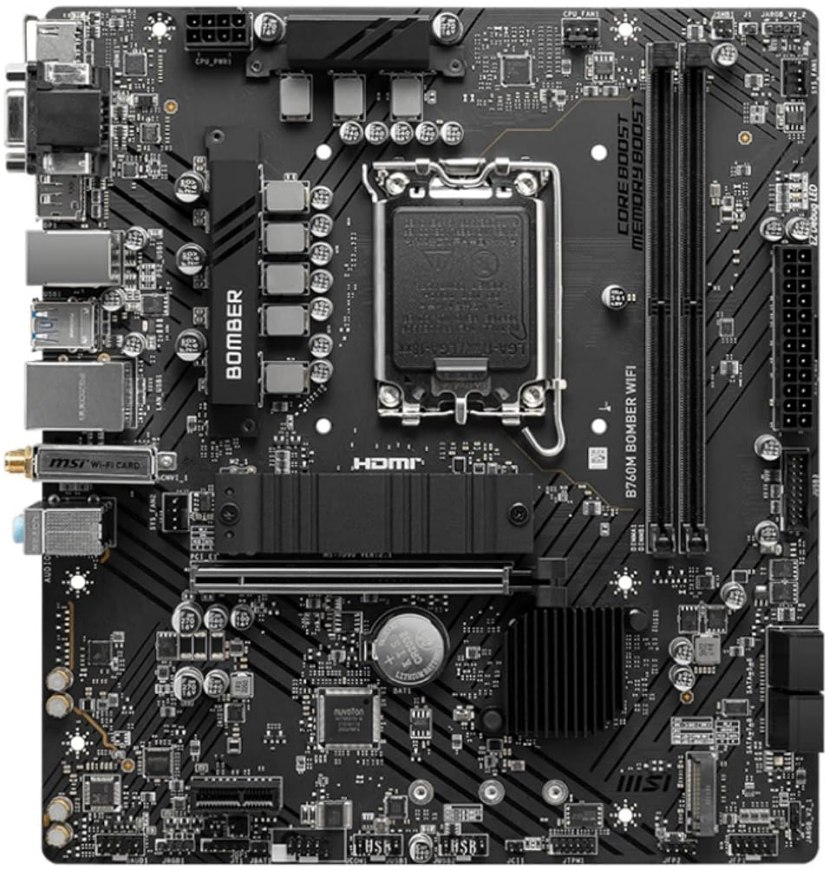


Figure 4.2: Top-down view of the MSI B760M Bomber WiFi Motherboard, highlighting the CPU socket, DDR5 DIMM slots, PCIe slots, and M.2 slots.



Figure 4.3: Angled view of the MSI B760M Bomber WiFi Motherboard, showcasing the various I/O ports and internal headers.



Figure 4.4: Detailed view of the rear I/O panel, including USB ports, Ethernet, audio jacks, and video outputs.

5. Setup and Installation

5.1 CPU Installation (LGA 1700)

1. Open the CPU socket lever.
2. Carefully align the CPU with the socket, ensuring the triangular mark on the CPU matches the mark on the socket.
3. Gently place the CPU into the socket without forcing it.
4. Close the socket lever to secure the CPU.

5.2 DDR5 Memory Installation

1. Open the clips at both ends of the DIMM slot.
2. Align the notch on the DDR5 memory module with the key in the DIMM slot.
3. Press down firmly on both ends of the memory module until the clips snap into place.

5.3 M.2 SSD Installation

1. Locate the M.2 slot and remove the M.2 Shield Frozr heatsink if present.
2. Insert the M.2 SSD into the slot at a 30-degree angle.
3. Gently push down the SSD and secure it with the provided M.2 screw or EZ M.2 clip.
4. Reinstall the M.2 Shield Frozr heatsink for optimal cooling.

5.4 PCIe Graphics Card Installation

1. Open the retention clip on the PCIe x16 slot.
2. Align your graphics card with the slot and press down firmly until it is seated and the clip locks.
3. Secure the graphics card to the PC case with a screw.
4. Connect any necessary PCIe power cables from your power supply to the graphics card.

5.5 Power Connections

- Connect the 24-pin ATX main power connector from your power supply to the motherboard.
- Connect the 8-pin (or 4+4-pin) ATX 12V CPU power connector to the motherboard.

5.6 Front Panel and Peripheral Connections

- Connect front panel headers (Power Switch, Reset Switch, HDD LED, Power LED) according to the motherboard manual.
- Connect USB 2.0, USB 3.2 Gen1, and USB 3.2 Gen2 Type-C front panel connectors.
- Connect audio front panel connector.
- Connect SATA data cables to your storage drives.

6. Operating Instructions

6.1 BIOS/UEFI Setup

To enter the BIOS/UEFI setup utility, press the**Delete** key repeatedly during the system's power-on self-test (POST). The BIOS/UEFI allows you to configure system settings, boot order, and hardware parameters.

6.2 Driver Installation

After installing your operating system, install the necessary drivers for your motherboard components. These can be found on the included driver CD/USB or downloaded from the official MSI website (www.msi.com) under the support section for your specific motherboard model.

6.3 Operating System Installation

Refer to your operating system's installation guide for detailed steps. Ensure your boot device (USB drive or DVD) containing the OS installer is set as the primary boot option in the BIOS/UEFI.

7. Maintenance

7.1 Cleaning

Regularly clean your PC to prevent dust buildup, which can lead to overheating. Use compressed air to remove dust from fans, heatsinks, and other components. Ensure the system is powered off and unplugged before cleaning.

7.2 BIOS/Firmware Updates

Periodically check the MSI website for BIOS/firmware updates. Updates can improve system stability, compatibility, and performance. Follow the instructions provided by MSI carefully when performing a BIOS update to avoid system damage.

8. Troubleshooting

If you encounter issues, refer to the following common troubleshooting steps:

- **No Power:** Check all power connections (24-pin ATX, 8-pin CPU, GPU power). Ensure the power supply is switched on and the wall outlet is functional.
- **No Display:** Verify that the monitor is connected to the graphics card (or motherboard if using integrated graphics) and is powered on. Reseat the graphics card and RAM modules.
- **System Not Booting:** Check for any diagnostic LEDs or POST codes on the motherboard. Reseat all components, including CPU, RAM, and storage devices. Try booting with minimal components (CPU, one RAM stick, graphics card).
- **Driver Issues:** Ensure all drivers are correctly installed. Download the latest drivers from the MSI website.
- **BIOS Reset:** If system instability occurs after BIOS changes, clear the CMOS by either removing the CMOS battery for a few minutes or using the Clear CMOS jumper on the motherboard (refer to the detailed manual for location).

9. Specifications

Feature	Specification
Brand	MSI
Series	B760M BOMBER WIFI
Form Factor	Micro-ATX
Processor Socket	LGA 1700
Compatible Processors	12th/13th/14th Gen Intel Core, Pentium Gold, Celeron
Memory Technology	DDR5
Memory Clock Speed	Up to 6400+ MHz (OC)
Maximum Memory Supported	128 GB
Graphics Card Interface	PCI Express 4.0 x16
M.2 Slots	PCIe Gen4 x4
Connectivity Type	Wi-Fi 6E, 2.5G LAN
USB 2.0 Ports	4 (rear)
HDMI Ports	1
Ethernet Ports	1
Product Dimensions	24.3 x 22 x 5 cm
Item Weight	1.01 kg

10. Warranty and Support

MSI provides a limited warranty for its products. For specific warranty terms, duration, and conditions, please refer to the warranty card included with your product or visit the official MSI website. For technical support, driver downloads, and further assistance, please visit the MSI support page at www.msi.com/support.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question